INFARED SPECTROSCOPY OF $Mn(CO_2)_n^-$ CLUSTER ANIONS

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We present infrared photodissociation spectra of $Mn(CO_2)_n^-$ $(n = 2 - 10)$ cluster ions. The spectra are interpreted in the framework of density functional theory and compared to other first-row transition metals in anionic clusters with CO_2, allowing to draw conclusions to the structure and spin state of the charge carrier.